In the Claims:

Please amend the claims as follows:

1. (currently amended) A method for screening for the presence of inhibition of at least one enzyme in the biosynthetic pathway to terpenoids via 1-deoxy-D-xylulose 5-phosphate in plants comprising the following steps:

(a) preparing a suspension of ~~plant cells or~~ plastids of a plastid-bearing plant in a culture medium for supporting the metabolism of said ~~cells or~~ plastids at least to the extent of said biosynthetic pathway,

(b1) adding to said suspension a predetermined amount of a carbon-13-, carbon-14-, deuterium-, or tritium-labeled biochemical precursor for generating terpenoids via said pathway,

(c1) incubating the mixture obtained in step (b1) for a predetermined period of time at a predetermined temperature,

(d1) separating from said incubated mixture obtained in step (c1) a fraction comprising a product or intermediate downstream from 1-deoxy-D-xylulose 5-phosphate in said pathway,

(e1) detecting the concentration of labeled product(s) in said fraction obtained in step (d1)

(b2) repeating step (b1) with the addition of a predetermined amount of a chemical test sample under otherwise identical conditions,

(c2) to (e2) repeating steps (c1) to (e1) with the mixture obtained in step (b2) under the same conditions as in steps (c1) to (e1) and

(f) determining the presence of inhibition of at least one enzyme in said pathway by observation of whether the concentration of labeled product(s) detected in ~~steps~~ step (e1) is higher than that detected in step (e2).

2. (previously presented) The method according to claim 1, wherein the plastid-bearing plant is a monocotyledonous or dicotyledonous plant.

3. (currently amended) The method according to claim 1, ~~wherein the suspension in step (a) is a suspension of plastids,~~ wherein the plastid is a chromoplast or a chloroplast.

4. (previously presented) The method according to claim 1, wherein the biochemical precursor is selected from the group consisting of 1-deoxy-D-xylulose, 1-deoxy-D-xylulose 5-phosphate and 2C-methyl-D-erythritol, 2C-methyl-D-erythritol 4-phosphate and 2C-methyl-D-erythritol 4-pyrophosphate.

5. (previously presented) The method according to claim 1, wherein the culture medium comprises ATP in combination with CTP or a source for CTP.

6. (previously presented) The method according to claim 5, wherein the source for CTP is CMP or CDP.

7. (previously presented) The method according to claim 1, wherein an extraction with a lipophilic organic solvent is used for the separation of terpenoids steps (d1) and (d2).

8. (previously presented) The method according to claim 1, wherein the biochemical precursor is a tritiated biochemical precursor and the product is tritiated water.

9. (previously presented) The method according to claim 8, wherein the separation of tritiated water in step (d1) is effected by a cold trap.

10. (previously presented) The method of claim 9, wherein the cold trap is cooled by liquid nitrogen or solid carbon dioxide.

11. (previously presented) The method according to claim 8, wherein the separation of a predetermined fraction of water in step (d1) is ascertained by a moisture indicator.

12. (previously presented) The method according to claim 11, wherein the moisture indicator is $CoCl_2$.

13. (previously presented) The method according to claim 8, wherein the concentration of tritiated water is measured by liquid scintillation measurement.

14. (previously presented) The method according to claim 8 characterized in that

(a) a multitude of incubations is carried out in parallel in the wells of a first multi-well plate;

(b) a second multi-well plate is placed upside down on the first, so that the wells are registered;

(c) the second plate is cooled with a coolant while the first plate is preferably heated; and

(d) the ice crystals in the wells of the separated and inverted second plate are subjected to liquid scintillation measurement.

15. (previously presented) The method according to claim 14 characterized in that a perforated gasket is placed between the first and the second plate.

16. (previously presented) The method according to claim14 characterized in that a subset of the wells is used for a moisture indicator.

17. (previously presented) The method according to claim 8 characterized in that the incubation medium comprises ATP and/or CTP or a source for CTP.

18. (previously presented) The method according to claim 1, wherein the following additional steps are carried out:

(g1)	adding to the suspension of step (a) of claim 1 a predetermined amount of a carbon-13-, carbon-14-, deuterium- or tritium-labeled isopentenyl pyrophosphate,
(c3) to (e3)	repeating steps (c1) to (e1) of claim 1 with the mixture obtained in step (g1),
(g2)	repeating step (g1) with the addition of a predetermined amount of an inhibitor detected in step (f) of claim 1,
(h)	ascertaining the absence of inhibition of an enzyme in the biosynthetic pathway downstream from isopentenyl pyrophosphate by said inhibitor.

19–28. (canceled)